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(FILE 'HOME' ENTERED AT 08:27:30 ON 13 SEP 2005)

FILE 'REGISTRY' ENTERED AT 08:27:35 ON 13 SEP 2005

FILE 'CASREACT' ENTERED AT 08:27:40 ON 13 SEP 2005

L1 STRUCTURE UPLOADED
L2 10 S L1 FUL
L3 16845 S RANEY OR NICKEL
L4 5 S L3 AND L2

=> d l1

L1 HAS NO ANSWERS

L1 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> d bib crd 1-5 14

L4 ANSWER 1 OF 5 CASREACT COPYRIGHT 2005 ACS on STN

AN 141:277347 CASREACT

TI Improved process for preparation of phenethylamine derivatives,
particularly 1-(2-amino-1-phenylethyl)cycloalkanols useful as venlafaxine
intermediates, by hydrogenation of corresponding nitriles over cobalt or
nickel catalysts at controlled temperatures

IN Kim, Keun-sik; Kim, Kwang-il; Chai, Ki-byung

PA Wyeth, John, and Brother Ltd., USA

SO U.S. Pat. Appl. Publ., 7 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

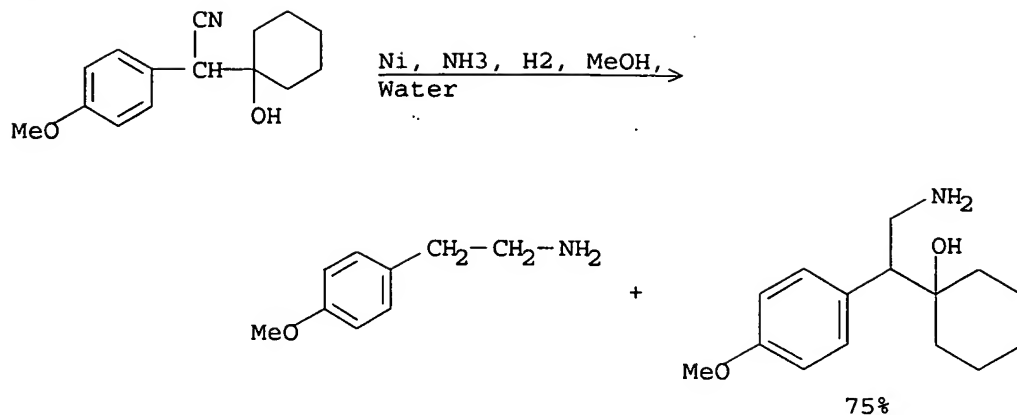
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| PI | US 2004181093 | A1 | 20040916 | US 2004-797705 | 20040310 |
| | WO 2004080934 | A2 | 20040923 | WO 2004-US7861 | 20040309 |
| | WO 2004080934 | A3 | 20041028 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG

PRAI US 2003-453583P 20030311

OS MARPAT 141:277347

RX(1) OF 1



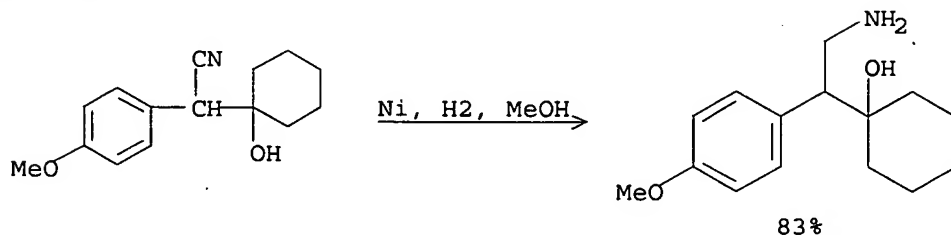
NOTE: optimization study

CON: STAGE(1) 10 - 20 deg C; 10 - 20 deg C, 60 psi; 21 hours,
10 - 20 deg C

L4 ANSWER 2 OF 5 CASREACT COPYRIGHT 2005 ACS on STN
AN 141:23295 CASREACT
TI Process for the preparation of cyclohexanol derivatives
IN Lan, Zhiyin; Shi, Kaiyun; Mo, Qizhuang; Li, Yulin
PA Peop. Rep. China
SO U.S. Pat. Appl. Publ., 6 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|------------------|------|----------|-----------------|----------|
| PI | US 2004106818 | A1 | 20040603 | US 2003-638845 | 20030811 |
| | CN 1504456 | A | 20040616 | CN 2002-153015 | 20021129 |
| PRAI | CN 2002-153015 | | 20021129 | | |
| OS | MARPAT 141:23295 | | | | |

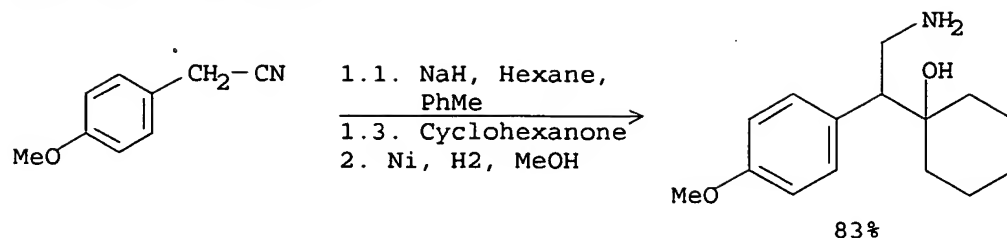
RX(1) OF 3



NOTE: Raney nickel was used

CON: 15 hours, room temperature

RX(3) OF 3 - 2 STEPS



NOTE: 2) Raney nickel was used

CON: STEP(1.1) 15 minutes, room temperature

STEP(1.2) 10 minutes, room temperature; 50 minutes,
room temperature; room temperature -> -5 deg C

STEP(1.3) 10 minutes; 5 hours

STEP(2) 15 hours, room temperature

L4 ANSWER 3 OF 5 CASREACT COPYRIGHT 2005 ACS on STN

AN 139:292057 CASREACT

TI Manufacture of phenyl ethylamine compounds, in particular venlafaxine, as antidepressants

IN Saigal, Jagdish Chand; Gupta, Rajender Pershad; Pandit, Vilas Vasant; Desai, Anand Jagannath; Mehta, Navneet Vinodrai; Rane, Shrikant Hambirrao

PA Global Bulk Drugs & Fine Chemicals Pvt. Ltd., India

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

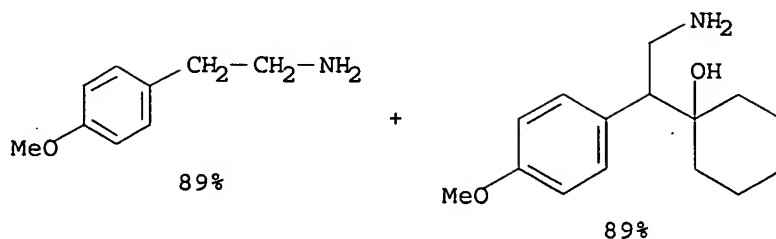
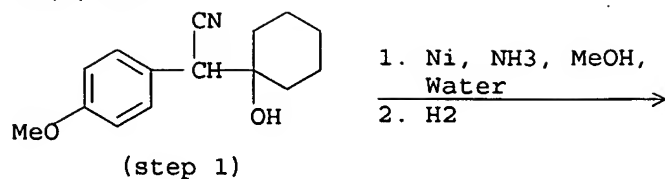
DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-------------------|--|----------|-----------------|----------|
| PI | WO 2003080560 | A1 | 20031002 | WO 2002-IN131 | 20020613 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| | CA 2482569 | AA | 20031002 | CA 2002-2482569 | 20020613 |
| | EP 1490325 | A1 | 20041229 | EP 2002-743616 | 20020613 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | |
| PRAI | IN 2002-MA208 | | 20020326 | | |
| | WO 2002-IN131 | | 20020613 | | |
| OS | MARPAT 139:292057 | | | | |

RX(1) OF 5

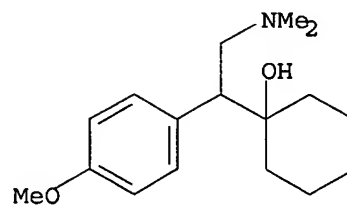
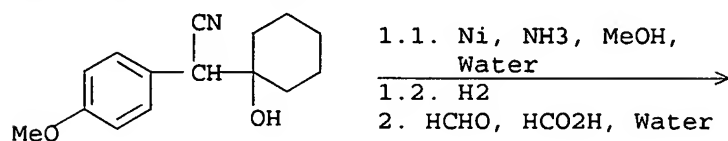


NOTE: Raney catalyst (CORMIII form)

CON: STAGE(1) 27 deg C

STAGE(2) 10 hours, 27 deg C, 120 psi

RX(4) OF 5 - 2 STEPS



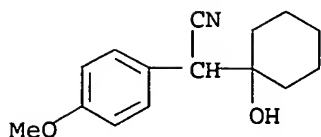
NOTE: 1) Raney catalyst (CORMIII form), 2) lit. ref.

CON: STEP(1.1) 27 deg C

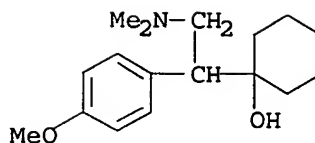
STEP(1.2) 10 hours, 27 deg C, 120 psi

STEP(2) 16 hours, reflux

RX(5) OF 5 - 2 STEPS



- 1.1. Ni, NH₃, MeOH,
Water
- 1.2. H₂
- 2.1. HCHO, HCO₂H,
Water
- 2.2. HCl, Me₂CHOH



HCl

NOTE: 1) Raney catalyst (CORMIII form), 2) last step: byproduct from previous step stays in acid soln.;

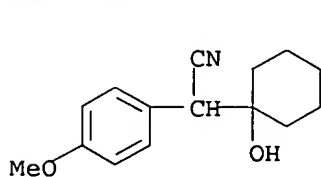
CON: STEP(1.1) 27 deg C
STEP(1.2) 10 hours, 27 deg C, 120 psi
STEP(2.1) 16 hours, reflux
STEP(2.2) room temperature

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

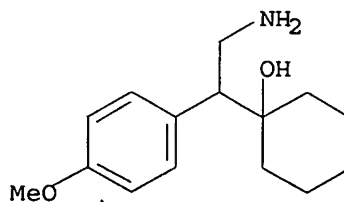
L4 ANSWER 4 OF 5 CASREACT COPYRIGHT 2005 ACS on STN
AN 138:303976 CASREACT
TI Preparation of 1-[2-Amino-1-(4-methoxyphenyl)ethyl]cyclohexanol
AU Anon.
CS USA
SO IP.com Journal (2002), 2(8), 52 (No. IPCOM000008738D), 8 Jul 2002
CODEN: IJPOBX; ISSN: 1533-0001
PB IP.com, Inc.
DT Journal; Patent
LA English

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------------|------|------------|-----------------|------|
| PI IP 8738D | | 8 Jul 2002 | 20020708 | |
| PRAI IP 2002-8738D | | 20020708 | | |

RX(1) OF 1



Ni, H₂, Dioxane



90%

NOTE: Raney nickel catalyst, alc. solvent can also be used
CON: room temperature, 20 - 40 bar

L4 ANSWER 5 OF 5 CASREACT COPYRIGHT 2005 ACS on STN
AN 137:63068 CASREACT
TI Preparation of 1-[α-(aminomethyl)benzyl]cycloalkanols
IN Paingankar, Niranjana; Mumbaikar, Vilas N.; Ekkundi, Vadiraj S.; Jalett,

Hans-Peter; Siegrist, Urs; Van der Schaaf, Paul Adriaan; Bienewald, Frank;
Studer, Martin; Burkhardt, Stefan

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

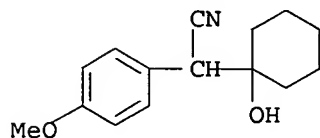
DT Patent

LA English

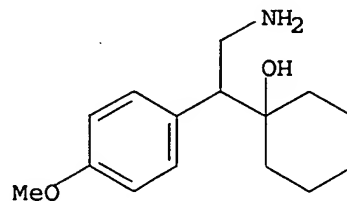
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|------------------|--|----------|-----------------|----------|
| PI | WO 2002050017 | A1 | 20020627 | WO 2001-EP14604 | 20011212 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| | CA 2431065 | AA | 20020627 | CA 2001-2431065 | 20011212 |
| | AU 2002038421 | A5 | 20020701 | AU 2002-38421 | 20011212 |
| | EP 1343750 | A1 | 20030917 | EP 2001-986865 | 20011212 |
| | EP 1343750 | B1 | 20050126 | | |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | |
| | JP 2004520312 | T2 | 20040708 | JP 2002-551516 | 20011212 |
| | AT 287870 | E | 20050215 | AT 2001-986865 | 20011212 |
| | ES 2234918 | T3 | 20050701 | ES 2001-1986865 | 20011212 |
| | US 2003114711 | A1 | 20030619 | US 2002-130196 | 20021015 |
| PRAI | IN 2000-MA1101 | 20001220 | | | |
| | IN 2001-MA390 | 20010514 | | | |
| | IN 2000-CH1101 | 20001220 | | | |
| | IN 2000-MA11 | 20001220 | | | |
| | IN 2001-CH390 | 20010514 | | | |
| | IN 2001-MA3 | 20010514 | | | |
| | WO 2001-EP14604 | 20011212 | | | |
| OS | MARPAT 137:63068 | | | | |

RX(2) OF 6



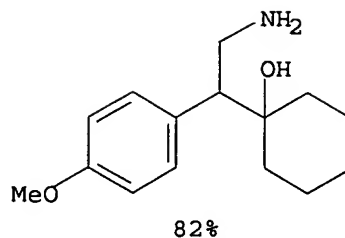
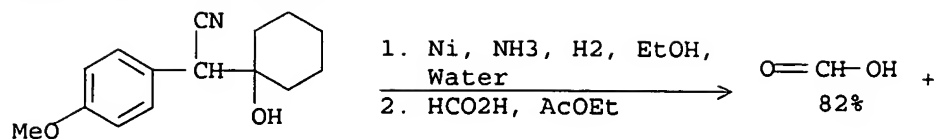
Ni, NH₃, H₂, EtOH,
Water



93%

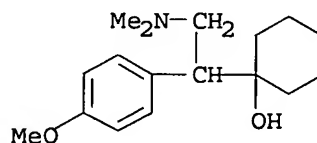
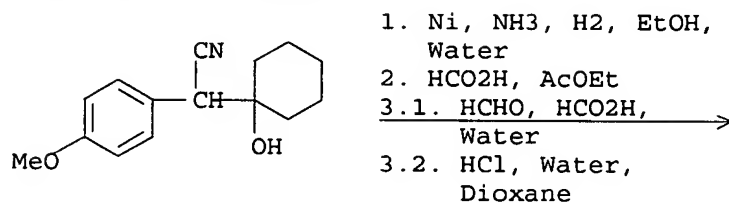
NOTE: Raney nickel used

RX(5) OF 6 - 2 STEPS



NOTE: 1) Raney nickel used

RX(6) OF 6 - 3 STEPS



HCl
86%

NOTE: 1) Raney nickel used

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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